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We claim:

| 1         | 1. A method of completion of a well, comprising:   |  |  |
|-----------|--|--|--|
| 2         | attaching at least one auxiliary conduit or cable to a downhole assembly;                              |  |  |
| 3         | providing an upper connection to said conduit or cable;  |  |  |
| 4         | running in said downhole assembly with said cable or conduit to a desired                              |  |  |
| 5         | location in the well;  |  |  |
| 6         | tagging into said downhole assembly and said upper connection of said                                  |  |  |
| 7         | conduit or cable downhole on at least one subsequent trip into the well with a tubular having at least |  |  |
| 8         | one auxiliary cable or conduit extending along its length from the surface;                            |  |  |
| <u>.9</u> | communicating through said auxiliary cable or conduit between the surface                              |  |  |
| i.        | and the downhole assembly on a real time basis.  |  |  |
|           |  |  |  |
|           | 2. The method of claim 1, further comprising:  |  |  |
|           | tagging into said downhole assembly on a subsequent trip with production                               |  |  |
| :3        | tubing having at least one auxiliary cable or conduit which is also connectable to said upper          |  |  |
| 4         | connection of said cable or conduit on the downhole assembly;  |  |  |
| 5         | communicating during production through auxiliary cable or conduit between                             |  |  |
| 6         | the surface and the downhole assembly on a real time basis.  |  |  |
| ļ.        |  |  |  |
| 1         | 3. The method of claim 1, further comprising:  |  |  |
| 2         | plugging said upper connection during said running in of the downhole                                  |  |  |
| 3         | assembly and auxiliary cable or conduit;   |  |  |

The method of claim 1, further comprising:

performing said tagging in without rotation.

unplugging said upper connection with another trip into the well.

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| 1 | 5.   | The method of claim 4, further comprising:                                  |  |  |  |  |
|---|--|---|--|--|--|--|
| 2 |  | selectively locking said connections resulting from said tagging in.        |  |  |  |  |
| 1 | 6.   | The method of claim 1, further comprising:                                  |  |  |  |  |
| 2 |  | configuring said auxiliary conduit or cable adjacent said downhole assembly |  |  |  |  |
| 3 | in a manor which permits monitoring or altering adjacent well conditions or the functioning of the |   |  |  |  |  |
| 4 | downhole assembly.   |   |  |  |  |  |
| 1 | 7.   | The method of claim 6, further comprising:                                  |  |  |  |  |
| 2 |  | using a gravel pack screen and packer for said downhole assembly extending  |  |  |  |  |
|   | said cable or conduit through said packer to said upper connection.                                |   |  |  |  |  |
| 1 | 8.   | The method of claim 7, further comprising:                                  |  |  |  |  |
| 2 |  | delivering gravel through said at least one of conduits.                    |  |  |  |  |
|   | 9.   | The method of claim 1, further comprising: using fiber optic as said cable. |  |  |  |  |
| 1 | 10.  | The method of claim 9, further comprising:                                  |  |  |  |  |
| 2 |  | using said fiber optic to measure strain on said downhole assembly.         |  |  |  |  |
| l | 11.  | The method of claim 1, further comprising:                                  |  |  |  |  |
| 2 |  | using said auxiliary cable or conduit to operate at least a portion of said |  |  |  |  |
| 3 | downhole assembly.   |   |  |  |  |  |

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| 1  | 12.                        | The method of claim 7, further comprising:                                      |  |  |  |  |
|--|----------------------------|---|--|--|--|--|
| 2  |                            | running in an outer jacket, assembled over said cable or conduit, together with |  |  |  |  |
| 3  | said screen ar             | nd packer.  |  |  |  |  |
|  |                            |   |  |  |  |  |
| 1  | 13.                        | The method of claim 7, further comprising:                                      |  |  |  |  |
| 2  |                            | running in at least one fiber optic cable on said screen;                       |  |  |  |  |
| 3  |                            | using said fiber optic to determine fluid conditions flowing to said screen.    |  |  |  |  |
| 1  | 14.                        | The method of claim 13, further comprising:                                     |  |  |  |  |
| 2  |                            | providing a winding inlet channel for inflow to said screen;                    |  |  |  |  |
| F  |                            | locating said fiber optic in said channel.                                      |  |  |  |  |
|  |                            | locating said fiber optic in said channer.                                      |  |  |  |  |
|  | 15.                        | The method of claim1, further comprising:                                       |  |  |  |  |
| 2  |                            | running said auxiliary conduit or cable in a U-shaped path so as to provide a   |  |  |  |  |
| 3  | pair of upper connections; |   |  |  |  |  |
| 4  |                            | extending said U-shaped path to the surface as a result of said tagging, an     |  |  |  |  |
| auxillary conductor or cable attached to a tubular run in from the surface, into each of |                            |   |  |  |  |  |
| 5  |                            | connections on a subsequent trip into the wellbore.                             |  |  |  |  |
|  |                            |   |  |  |  |  |
| L  | 16.                        | The method of claim 1, further comprising:                                      |  |  |  |  |
| 2  |                            | running at least one cable and at least one conduit auxiliary to the downhole   |  |  |  |  |
| 3  | assembly;                  |   |  |  |  |  |
| 1  |                            | securing said cable to said conduit.  |  |  |  |  |
|  |                            |   |  |  |  |  |

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| 1 | 17.   | The method of claim 1, further comprising:   |  |  |  |
|---|---|--|--|--|--|
| 2 |   | providing an external through on said downhole assembly;                           |  |  |  |
| 3 |   | mounting a fiber optic cable in said through.                                      |  |  |  |
|   |   |  |  |  |  |
| 1 | 18.   | The method of claim 17, further comprising:  |  |  |  |
| 2 |   | securely mounting said fiber optic cable to said through to allow real time        |  |  |  |
| 3 | sensing of strain on the downhole assembly. |  |  |  |  |
|   |   |  |  |  |  |
| 1 | 19.   | The method of claim 1, further comprising:   |  |  |  |
| 2 |   | mounting a fiber optic cable inside said conduit.                                  |  |  |  |
|   |   |  |  |  |  |
|   | 20.   | The method of claim 7, further comprising:   |  |  |  |
| 2 |   | using a fiber optic cable to monitor the compaction of gravel per unit length      |  |  |  |
| 3 | of screen;                                  |  |  |  |  |
| 1 |   | using a plurality of conduits for gravel deposition at different locations of said |  |  |  |
| Š | screen;                                     |  |  |  |  |
|   |   | sensing downhole conditions during production through said screen using said       |  |  |  |
| 7 | fiber optic cable.                          |  |  |  |  |

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